

TRANSMITTAL FORM

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Total Number of Pages in This Submission

Application Number	10/637,847
Filing Date	August 7, 2003
First Named Inventor	Carl L. Hansen
Art Unit	1732
Examiner Name	Edmund H. Lee
Attorney Docket Number	20174C-004940US

ENCLOSURES (Check all that apply)

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SB/08
156 references
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Remarks The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Townsend and Townsend and Crew LLP		
Signature	<i>Patrick M. Boucher</i>		
Printed name	Patrick M. Boucher		
Date	October 12, 2005	Reg. No.	44,037

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Signature	<i>Janet L. Newmaker</i>		
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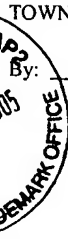
TOWNSEND and TOWNSEND and CREW LLP

By: Janet L. Newmaker

Janet L. Newmaker

PATENT

Attorney Docket No.: 20174C-004940US
Client Reference Nos.: CIT 3484-CIP-CIP-CIP
and U186.210.US



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE.

In re application of:

Carl L. Hansen et al.

Application No.: 10/637,847

Filed: August 7, 2003

For: Microfluidic Protein
Crystallography

Customer No.: 20350

Confirmation No.: 3349

Examiner: Edmund H. Lee

Art Unit: 1732

**SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER
37 CFR §§ 1.97 AND 1.98**

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Commissioner for Patents
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Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the non-US references (in compliance with the requirements of 1287 OG 163) are enclosed.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

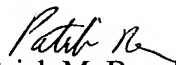
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Applicants believe that no fee is required for submission of this statement. If a fee is required, however, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Date: October 12, 2005


Patrick M. Boucher
Reg. No. 44,037

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PMB/jln
60605997 v1



PTO/SB/08A (08-03)

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 13

Complete if Known

Application Number	10/637,847
Filing Date	August 7, 2003
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Art Unit	1732
Examiner Name	Edmund H. Lee
Attorney Docket Number	20174C-004940US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	A1	US-3,570,515	03-16-1971	Kinner	
	A2	US-3,747,628	07-24-1973	Holster et al.	
	A3	US-4,046,159	09-06-1977	Pegourie	
	A4	US-4,119,368	10-10-1978	Yamakazi	
	A5	US-4,153,855	05-08-1979	Feingold	
	A6	US-4,245,673	01-20-1981	Bouteille et al.	
	A7	US-4,434,704	03-06-1984	Surjaatmadja	
	A8	US-4,898,582	02-06-1990	Faste	
	A9	US-4,992,312	02-12-1991	Frisch	
	A10	US-5,085,562	02-04-1992	Van Lintel	
	A11	US-5,088,515	02-18-1992	Kamen	
	A12	US-5,096,388	03-17-1992	Weinberg	
	A13	US-5,126,115	06-30-1992	Fujita et al.	
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	A16	US-5,224,843	07-06-1993	Van Lintel	
	A17	US-5,259,737	11-09-1993	Kamisuki et al.	
	A18	US-5,265,327	11-30-1993	Faris et al.	
	A19	US-5,290,240	03-01-1994	Horres, Jr.	
	A20	US-5,336,062	08-09-1994	Richter	
	A21	US-5,346,372	09-13-1994	Naruse et al.	
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	A24	US-5,400,741	03-28-1995	DeTitta et al.	
	A25	US-5,423,287	06-13-1995	Usami et al.	
	A26	US-5,529,465	06-25-1996	Zengerle et al.	
	A27	US-5,593,130	01-14-1997	Hansson et al.	
	A28	US-5,642,015	06-24-1997	Whitehead et al.	

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Substitute for form 1449A/PTO

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Sheet

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of

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		Number Kind Code ² (if known)			
	A29	US-5,659,171	08-19-1997	Young et al.	
	A30	US-5,660,370	08-26-1997	Webster	
	A31	US-5,681,024	10-28-1997	Lisec et al.	
	A32	US-5,705,018	01-06-1998	Hartley	
	A33	US-5,759,014	06-02-1998	Van Lintel	
	A34	US-5,775,371	07-07-1998	Pan et al.	
	A35	US-5,788,468	08-04-1998	Dewa et al.	
	A36	US-5,836,750	11-17-1998	Cabuz	
	A37	US-5,842,787	12-01-1998	Kopf-Sill et al.	
	A38	US-5,875,817	03-02-1999	Carter	
	A39	US-5,876,187	03-02-1999	Afromowitz	
	A40	US-5,932,799	08-03-1999	Moles	
	A41	US-5,942,443	08-24-1999	Parce et al.	
	A42	US-6,007,309	12-28-1999	Hartley	
	A43	US-6,043,080	03-28-2000	Lipshutz et al.	
	A44	US-6,123,769	09-26-2000	Sanjoh	
	A45	US-6,155,282	12-05-2000	Zachary et al.	
	A46	US-6,165,694	12-26-2000	Liu	
	A47	US-6,174,365 B1	01-16-2001	Sanjoh	
	A48	US-6,296,673 B1	10-02-2001	Santarsiero et al.	
	A49	US-2001/0027745 A1	10-11-2001	Weigl et al.	
	A50	US-2001/0041357 A1	11-15-2001	Fouillet et al.	
	A51	US-6,345,502 B1	02-12-2002	Tai et al.	
	A52	US-6,409,832 B2	06-25-2002	Weigl et al.	
	A53	US-6,767,706 B2	07-27-2004	Quake et al.	

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				First Named Inventor	Carl L. Hansen
				Art Unit	1732
				Examiner Name	Edmund H. Lee
Sheet	3	of	13	Attorney Docket Number	20174C-004940US

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	B1	EP	0 592 094	A2	04-13-1994	International Business Machines Corporation		<input type="checkbox"/>
	B2	EP	0 703 364	A1	03-27-1996	Fraunhofer-Gesellschaft Zur Förderung Der Angewandten Forschung E.V.		<input type="checkbox"/>
	B3	EP	0 706 004	A2	04-10-1996	Bayer Corporation		<input type="checkbox"/>
	B4	EP	0 779 436	A2	06-18-1997	Frank T. Hartley		<input type="checkbox"/>
	B5	EP	0 829 360	A2	03-18-1998	Xerox Corporation		<input type="checkbox"/>
	B6	EP	0 845 603	A1	06-03-1998	Xerox Corporation		<input type="checkbox"/>
	B7	EP	0 999 055	A2	05-10-2000	Samsung Electronics Co., Ltd.		<input type="checkbox"/>
	B8	GB	2 155 152	A	09-18-1985	Allied Corporation		<input type="checkbox"/>
	B9	GB	2 308 460	A	06-25-1997	Daewoo Electronics Co., Ltd.		<input type="checkbox"/>
	B10	WO	98/07069	A1	02-19-1998	The Regents Of The University Of Michigan		<input type="checkbox"/>
	B11	WO	99/17093	A1	04-08-1999	The Regents Of The University Of Michigan		<input type="checkbox"/>

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Sheet	4	of	13	Attorney Docket Number	20174C-004940US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	"Biochips," Nature Biotechnology, Vol. 18, Supplement 2000, pp. IT43-IT44, 2000	
	C2	"Chapter 9: Microfluidic Devices," Micromachined Transducers Sourcebook, pp. 779-882, 1998	
	C3	"Electro Microfluidic Dual In-Line Package (EMDIP)," Sandia National Laboratories, 2 pages, no date	
	C4	"Last Chance For Micromachines," The Economist Technology Quarterly, printed from website http://www.economist.com/science/displayStory.cfm?Story_ID=442930 on 1/25/2001, 8 pages, 12/7/2000	
	C5	ABOLA, ENRIQUE et al., "Automation Of X-Ray Crystallography," Nature Structural Biology, Structural Genomics Supplement, pp. 973-977, 11/2000	
	C6	AHN, CHONG H. et al., "Fluid Micropumps Based On Rotary Magnetic Actuators," Proceedings of 1995 IEEE Micro Electro Mechanical Systems Workshop (MEMS '95), Amsterdam, Netherlands, pp. 408-412, 1/29-2/2/1995	
	C7	ANDERSEN, GREGERS ROM et al., "A Spreadsheet Approach To Automated Protein Crystallization," Journal of Applied Crystallography, Vol. 29, pp. 236-240, 1996	
	C8	ANDERSON, ROLFE C. et al., "Microfluidic Biochemical Analysis System," Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators, Chicago, Illinois, pp. 477-480, 6/16-19/1997	
	C9	ANGELL, JAMES B. et al., "Silicon Micromechanical Devices," Scientific American, pp. cover, 44-55, 4/1983	
	C10	ARMANI, DENIZ et al., "Re-Configurable Fluid Circuits By PDMS Elastomer Micromachining," IEEE Int. Conf. Micro Electro Mech. Syst. Tech. Digest, Vol. 12, pp. 222-227, 1999	
	C11	BALLANTYNE, J. P. et al., "Selective Area Metallization By Electron-Beam Controlled Direct Metallic Deposition," J. Vac. Sci. Technol., Vol. 10, No. 6, pp. 1094-1097, 11/1973	
	C12	BELGRADER, PHILLIP et al., "Rapid Pathogen Detection Using A Microchip PCR Array Instrument," Clinical Chemistry, Vol. 44, No. 10, pp. 2191-2194, 1998	
	C13	BENARD, W. L. et al., "A Titanium-Nickel Shape-Memory Alloy Actuated Micropump," Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators, Chicago, Illinois, pp. 361-364, 6/16-19/1997	
	C14	BERRY, MICHAEL B., "Protein Crystallization: Theory And Practice," Excerpts from Doctoral Thesis, 36 pages, 9/17/1995	
	C15	BLOOMSTEIN, T. M. et al., "Laser-Chemical Three-Dimensional Writing For Microelectromechanics And Application To Standard-Cell Microfluidics," J. Vac. Sci. Technol. B, Vol. 10, No. 6, pp. 2671-2674, 11/1992	

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NON PATENT LITERATURE DOCUMENTS			
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	C16	BOUSSE, LUC et al., "Electrokinetically Controlled Microfluidic Analysis Systems," Annu. Rev. Biophys. Biomol. Struct., Vol. 29, pp. 155-181, 2000	
	C17	BRECHTEL, R. et al., "Control Of The Electroosmotic Flow By Metal-Salt-Containing Buffers," Journal of Chromatography A, Vol. 716, pp. 97-105, 1995	
	C18	BRUSH, MICHAEL, "Automated Laboratories," The Scientist, Vol. 13, No. 4, 10 pages, 2/15/1999	
	C19	BRYZEK, JANUSZ et al., "Micromachines On The March", IEEE Spectrum, Vol. 31, No. 5, pp. 20-31, 5/1994	
	C20	BUCHAILLOT, LIONEL et al., "Silicon Nitride Thin Films Young's Modulus Determination By An Optical Non Destructive Method," Jpn. J. Appl. Phys., Vol. 36, Part 2, No. 6B, pp. L794-L797, 6/15/1997	
	C21	BURBAUM, JONATHAN J. et al., "New Technologies For High-Throughput Screening," Current Opinion in Chemical Biology, Vol. 1, pp. 72-78, 1997	
	C22	CALKINS, KATHRYN, "Mycometrix: Rubber Chips," BioCentury, 2 pages, 10/16/2000	
	C23	CHAYEN, NAOMI E., "A Novel Technique To Control The Rate Of Vapour Diffusion, Giving Larger Protein Crystals," Journal of Applied Crystallography, Vol. 30, pp. 198-202, 1997	
	C24	CHAYEN, NAOMI E. et al., "An Automated System For Micro-Batch Protein Crystallization And Screening," J. Appl. Cryst., Vol. 23, pp. 297-302, 1990	
	C25	CHAYEN, NAOMI E., "Comparative Studies Of Protein Crystallization By Vapour-Diffusion And Microbatch Techniques," Acta Cryst., Vol. D54, pp. 8-15, 1998	
	C26	CHAYEN, NAOMI E. et al., "Microbatch Crystallization Under Oil - A New Technique Allowing Many Small-Volume Crystallization Trials," Journal of Crystal Growth, Vol. 122, pp. 176-180, 1992	
	C27	CHAYEN, NAOMI E. et al., "New Developments Of The IMPAX Small-Volume Automated Crystallization System," Acta Cryst., Vol. D50, pp. 456-458, 1994	
	C28	CHIU, DANIEL T. et al., "Patterned Deposition Of Cells And Proteins Onto Surfaces By Using Three-Dimensional Microfluidic Systems," PNAS, Vol. 97, No. 6, pp. 2408-2413, 3/14/2000	
	C29	CHOU, HOU-PU et al., "A Microfabricated Device For Sizing And Sorting DNA Molecules," Proc. Natl. Acad. Sci., Vol. 96, pp. 11-13, 1/1999	
	C30	CHOU, HOU-PU et al., "A Microfabricated Rotary Pump," Biomedical Microdevices, Vol. 3, No. 4, pp. 323-330, 2001	
	C31	CHOU, HOU-PU et al., "Integrated Elastomer Fluidic Lab-On-A-Chip-Surface Patterning And DNA Diagnostics," Proceedings of the Solid State Actuator and Sensor Workshop, Hilton Head, South Carolina, 4 pages, 2000	

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	C32	CHOU, HOU-PU et al., "Multiple Disease Diagnostics On A Single Chip," Biophysics Lab, Caltech, pp. 1-4, 3/1/2000	
	C33	COX, M. JANE et al., "Experiments With Automated Protein Crystallization," J. Appl. Cryst., Vol. 20, pp. 366-373, 1987	
	C34	DELAMARCHE, EMMANUEL et al., "Patterned Delivery Of Immunoglobulins To Surfaces Using Microfluidic Networks," Science, Vol. 276, pp. 779-781, 5/2/1997	
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	C36	DUFFY, DAVID C. et al., "Rapid Prototyping Of Microfluidic Switches In Poly(dimethyl siloxane) And Their Actuation By Electro-Osmotic Flow," J. Micromech. Microeng., Vol. 9, pp. 211-217, 1999	
	C37	EFFENHAUSER, CARLO S. et al., "Integrated Capillary Electrophoresis On Flexible Silicone Microdevices: Analysis Of DNA Restriction Fragments And Detection Of Single DNA Molecules On Microchips," Analytical Chemistry, Vol. 69, No. 17, pp. 3451-3457, 9/1/1997	
	C38	EFFENHAUSER, CARLO S. et al., "Integrated Chip-Based Capillary Electrophoresis," Electrophoresis, Vol. 18, pp. 2203-2213, 1997	
	C39	EISELÉ, JEAN-LUC, "Preparation Of Protein Crystallization Buffers With A Computer-Controlled Motorized Pipette - PIPEX," J. Appl. Cryst., Vol. 26, pp. 92-96, 1993	
	C40	FAHRENBERG, J. et al., "A Microvalve System Fabricated By Thermoplastic Molding," J. Micromech. Microeng., Vol. 5, pp. 169-171, 1995	
	C41	FENNA, R. E., "Crystallization Of Human α-Lactalbumin," J. Mol. Biol., Vol. 161, pp. 211-215, 1982	
	C42	FETTINGER, J. C. et al., "Stacked Modules For Micro Flow Systems In Chemical Analysis: Concept And Studies Using An Enlarged Model," Sensors and Actuators B, Vol. 17, pp. 19-25, 1993	
	C43	FOLCH, A. et al., "Molding Of Deep Polydimethylsiloxane Microstructures For Microfluidics And Biological Applications," Journal of Biomechanical Engineering, Vol. 121, pp. 28-34, 2/1999	
	C44	FOX, KRISTIN M. et al., "Crystallization Of Old Yellow Enzyme Illustrates An Effective Strategy For Increasing Protein Crystal Size," J. Mol. Biol., Vol. 234, pp. 502-507, 1993	
	C45	FU, ANNE Y. et al., "A Microfabricated Fluorescence-Activated Cell-Sorter," Nature Biotechnology, Vol. 17, pp. 1109-1111, 11/1999	
	C46	GALAMBOS, PAUL et al., "Electrical And Fluidic Packaging Of Surface Micromachined Electro-Microfluidic Devices," 8 pages, no date	

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				Examiner Name	Edmund H. Lee
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